

**ABSTRACT OF THE DISCLOSURE**

In order to suppress at least one interference signal in an incoming audio signal using a directional microphone system having at least two microphones, that directional microphone signal which has the lowest interference signal component is selected from two or more directional microphone signals that have been produced by weighted combination from the signals of the microphones, with the weighting in each case determining a direction-dependent sensitivity. If a sensitivity distribution has a minimum in the direction of the interference signal source, then a low signal energy is detected, which characterizes a lower interference signal component.

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